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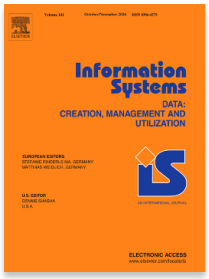

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Description

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Information systems are the software and hardware systems that support data-intensive applications. The journal Information Systems publishes articles concerning the design and implementation of languages, data models, process models, algorithms, software and hardware for information systems.

Subject areas include **data management** issues as presented in the principal international database conferences (e.g., ACM SIGMOD/PODS, VLDB, ICDE and ICDT/EDBT) as well as data-related issues from the fields of data mining/machine learning, information retrieval coordinated with structured data, internet and cloud data management, business process management, web semantics, visual and audio information systems, scientific computing, and data science. We welcome systems papers that focus on implementation considerations in massively parallel data management, fault tolerance, and special purpose hardware for data-intensive systems; theoretical papers that either break significant new ground or unify and extend existing algorithms for data-intensive applications; and manuscripts from application domains, such as urban informatics, social and natural science, and Internet of Things, which present innovative, high-performance, and scalable solutions to data management problems for those domains.

All papers should motivate the problems they address with compelling examples from real or potential applications. Systems papers must be serious about experimentation either on real systems or simulations based on traces from real systems. Papers from industrial organizations are welcome. Theoretical papers should have a clear motivation from applications and clearly state which ideas have potentially wide applicability.

Authors of selected articles that have been accepted for publication in Information Systems are invited by the EiCs to submit the experiment described in their papers for reproducibility validation. The resulting additional reproducibility paper is co-authored by the reproducibility reviewers and the authors of the original publication.

As part of its commitment to reproducible science, Information Systems also welcomes experimental reproducible survey papers. Such submissions must:
(i) apply a substantial portion of the different surveyed techniques to at least one existing benchmark and perhaps one or more new benchmarks, and
(ii) be reproducible (the validation of reproducibility will result in a separate paper following the guidelines of our Reproducibility Editor).

In addition to publishing submitted articles, the Editors-in-Chief will invite retrospective articles that describe significant projects by the principal architects of those projects. Authors of such articles should write in the first person, tracing the social as well as technical history of their projects, describing the evolution of ideas, mistakes made, and reality tests.
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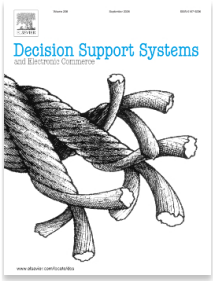

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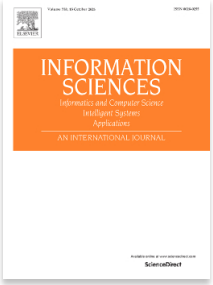

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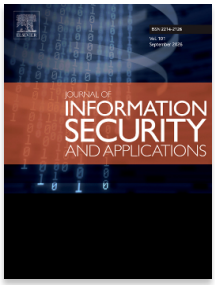

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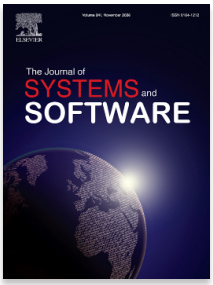

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